Mertes

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[54]	FLUSH MOUNTED, FULLY CONCEALED CABINET HINGES	
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[52]	U.S. Cl	E05D 15/32 16/288; 16/302; 16/358; 16/360; 16/368
[58]	Field of Sea	16/288, 302, 358, 360, 16/361, 364, 368, 369, 370
[56] References Cited		
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57] ABSTRACT

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A flush mounted hinge assembly for use in applications

where the hinges are to be fully concealed and where the doors abut one another or an adjacent structural member, includes a cabinet mounted bracket, a door mounted bracket, and a housing pivotally mounted to the cabinet bracket. The movement of the door accomplished in two stages, with initial pivoting being handled by a parallelgram-type linkage interconnecting the housing with the door mounted bracket, and permitting initial outward movement of the door to clear the adjacent door or abutting cabinet structure. Subsequently, as the door opens wider, a control member attached to the parallelogram linkage permits relative movement of the housing and the cabinet mounted bracket member, to permit full pivoting of the housing relative to the cabinet bracket, under control of a cam and cam follower linkage associated with the parallelogram mounting, following initial restraint of the housing against pivoting while the door is at a relatively small angle relative to the cabinet. To permit final movement of the door at angles between 90 degrees and 180 degrees, the pivot point of at least one of the parallelogram members may be permitted to shift, while the entire door continues to rotate to an additional angular orientation. The pivot point is arranged so that at limited angles is restrained from any lateral shifting, whereas beyond a certain angular orientation, the pivot point may shift laterally.

19 Claims, 8 Drawing Sheets

